IN THE CLAIMS

Please cancel claims 2-9, 11-14, and 16, and amend remaining claims as shown below:

1   1. (Currently Amended) A <u>computer-implemented</u> method for generating a table of

2   contents for a document using information in said document, comprising ~~the steps of~~:

3   building a model of said document including an initial semantic structure;

4   detecting <u>hierarchical</u> changes in said semantic structure spanning different scales;

5   and

6   ordering said changes into entries in said table of contents based on scale span.

1   2-9. (Canceled)

1   10. (Currently Amended) The method of claim 1 wherein said building ~~step~~ <u>further</u>

2   comprises ~~the further steps of~~:

3   defining a vector of terms occurring in said document; and

4   mapping said document into a vector space by projecting scaled term occurrence

5   histogram data onto said vector of terms <u>and summarizing said terms using</u>

6   <u>singular-value decomposition</u>.

1   11-14. (Canceled)

1   15. (Currently Amended) The method of claim 1 wherein said detecting ~~step~~ <u>further</u>

2   comprises ~~the further steps of~~:

3   applying successively smaller scale filter windows to said model according to said

4   initial semantic structure to construct a map of said changes versus scale;

5   identifying local peaks in said contour map, said peaks being points of maximum

6   vector derivative magnitude;

7   tracing said local peaks back to a semantic structure change origin point; and

8   measuring a span of scales over which each said change exists.

1   16. (Canceled)

1   17. (Currently Amended) A system for generating a table of contents for a document using

2   information in said document, comprising:

3   means for building a model of said document including an initial semantic structure;

4   means for detecting <u>hierarchical</u> changes in said semantic structure spanning

5   different scales; and

6   means for ordering said changes into entries in said table of contents based on scale

7   span.

1   18. (Currently Amended) A computer program product comprising a machine-readable

2   medium having computer-executable program instructions thereon for generating a table of

3   contents for a document using information in said document, including:

4   a first code means for building a model of said document including an initial

5   semantic structure;

6   a second code means for detecting hierarchical changes in said semantic structure

7   spanning different scales; and

8   a third code means for ordering said changes into entries in said table of contents

9   based on scale span.